WETLAND BIOLOGICAL CONDITIONS
ENVIRONMENTAL AUDITOR REPORT

Version 2.2

Wetland Studies and Solutions, Inc.® a DAVEY company

Wetland ID: W-Q2	**Crossing Start Date:** 01/26/2024	**Crossing Completion Date:** 03/08/2024
Milepost: 296.2	**Pre-Con Assessment Date:** 11/08/2023	**Post-Con Assessment Date:** 03/08/2024
Station: 15667+95	**Cowardin Classification:** PFO **(PEM, PFO, PSS, POW)**	**Wetland Impact Area (sq ft.):** 16422.12
County: Pittsylvania		

Item #	Resource Crossing Conditions	N/A	YES	NO
1.	Were equipment mats or other suitable methods utilized under heavy equipment to minimize soil compaction and disturbance in wetlands?		X	
2.	Was the existing vegetation removed prior to initiating land disturbance within the resource?		X	
3.	Was the top 1-foot (12-inches) of wetland soil segregated and stockpiled separate from trench spoils?		X	
4.	Was excess material not needed for backfill removed and disposed of in an upland area?		X	
5.	Was the top 12-inches of backfill made with clean native wetland topsoil?		X	
6.	Were standard decompaction practices (disking, plowing, cultivating, tilling, or incorporation of organic matter into the topsoil horizon) implemented prior to applying seed?		X	
7.	Was wetland topsoil replaced and temporarily seeded?		X	
8.	Was permanent seed applied to unsaturated wetlands?		X	
9.	Was equipment/timber matting removed from the wetland area properly by vertically lifting, and not pulling through the impact area.		X	
10.	Were impervious trench breakers/plugs properly installed within 25-feet of the resource to prevent subsurface erosion to or from the resource area?		X	
11.	Was the pre-construction survey data provided and utilized during restoration in attempt to maintain the original surface hydrology, and were contours re-established to pre-construction conditions to maintain overland flow patterns?		X	
12.	Have civil surveys been scheduled to verify as-built conditions meet pre-construction conditions in accordance with the project Mitigation Framework and federal/state permit requirements?		X	
13.	Was the time of disturbance minimized by conducting resource work continuously to completion?		X	
14.	Does the post-construction square footage of wetland area appear to be restored to meet or exceed the pre-construction area square footage?		X	
15.	Are bareroot saplings required and/or scheduled to be planted for the dormant season (10/1 – 4/30) in PFO classified wetlands?		X	
16.	Did any unauthorized discharges to unpermitted resources occur during the crossing? If so, explain the corrective actions implemented in the Comments section and include additional photos.			X

Item #	Biological Conditions	Pre-Con	Post-Con
17.	**Wetland Saturation:** *Are surface waters, the water table, and/or overall soil saturation present? (Select Yes or No)*	Yes	Yes
18.	**Resource Alterations: Are the wetland soil conditions visibly disturbed?** **Examples:** *Livestock presence, haul roads, farm traffic, drain tiles, recent mowing/clear cutting, recent excavating/disking of soils, etc.* **Rating:** *1-Negligible (undisturbed/natural resource), 2-Minor (20-40% of resource disturbed by alterations), 3-Moderate (40-80% of resource disturbed), 4-Poor (>80% of resource disturbed)*	1 – Negligible	3 - Moderate
19.	**Is vegetation present within the permitted impact area prior to disturbance? (Pre-Con)** **Are areas properly seeded and stabilized after restoration? (Post-Con)** **Rating:** *1-Optimal (60-100% heavy vegetative cover), 2-Suboptimal (30-60% mixed vegetative coverage), 3-Marginal (<30% vegetative coverage), 4-Poor (Mowed/maintained area or farmland, impervious area, sparsely vegetative coverage, etc.)*	2- Suboptimal	2 - Suboptimal

Comments/Remarks

11-10-2023: The pre-construction meeting was conducted. The MVP EI is Randy Mattews, and the Precision Pipeline foreman is Brandon Methner. This resource is to be crossed in conjunction with S-Q3. -T. Turner Jr
11/11-27/2023: Inactive, no construction activity within resource area. -T. Turner Jr
11-28-2023: Top 12" of resource buffer topsoil removed, and crews are preparing for bore crossing to begin. -T. Turner
11-29-2023 Straw applied to topsoil stockpiles for stabilization. No work occurred in the resource. -T. Turner
11/30/2023 to 1/25/2024: No work conducted in the resource. Bridge mats are installed and equipment crosses the mats daily for upland work. Resource crossing modification application from bore to open-cut crossing. No impacts to biological conditions observed or unauthorized impacts. -T. Turner Jr.
1/26/2024: New Precon meeting conducted for open-cut crossing. MVP Environmental Inspectors: Alex Bear & Justin Wilson Dewatering Structure in two various locations. -T. Turner
1/27-31/2024: Crew managing resource, no work within buffer zone -T. Turner
2/1/2024: Wetland topsoil removed and segregated, no unauthorized impacts or biological impacts to resource. -T. Turner Jr
2/02/2024: DEQ present onsite. The crew from Hoover was onsite for blasting to aid with rock removal. The bell holes were established on either side of resource for tie in operations. The spoils were conveyed to an upland area. The trenching and transfer of wetland soil to stockpile in upland area. A heavy rock presence was removed by a track hoe with a hammer attachment and the remaining dense rock mass required blasting. -K. Douglas
2/03/2024: DEQ present onsite. Trenching activities were ongoing. The trench was completed between the bell hole (CIS) and the 50' FERC buffer at S-Q3. A secondary subsoil stockpile was established near the primary dewatering structure as the relay of trench spoils continued. Sandbag ECDs were installed in the trench. -K. Douglas
2/04/2024: No crossing construction activities occurring in the resource on this date. A pump within containment has been staged on the bridge for dewatering operations. All the ECDs were functioning properly. There were no impacts to the biological conditions to report. -K. Douglas
2/05/2024: Lowering in of pipe and trench pumps operational to dewatering structure. Crew on site welding tie in points to existing pipe. -T. Turner Jr.
02/06-09/2024: Welding and tie-in activities continues. Dewatering operations are operating. No impact to biological conditions was observed. -T. Turner Jr.
2/10/2024: Preparation for incoming weather has begun, backfill taking place. Minor spill of hydraulic fluid occurred in workspace, and crew immediately mitigated any hazards absorbent pads and proper cleaned up procedure. No injuries occurred, proper reports were submitted, and no impact to biological conditions occurred. -T. Turner Jr.
2-12-2024: Poor weather, crew placed on standby until weather clears up. -T. Turner Jr.
2-13-2024: Crew redoing water bars and cleaning up bridge. Weather and resource restoration continues with pumps operating to pump excess water from weather -T. Turner Jr.
2-14-2024: Crew backfilling resource and utilizing the pump to eliminate excess water from recent in-climate weather. Trench breakers installed on CIS. -T. Turner Jr.
2-15-2024: Restoration of topsoil, ECDs, straw stabilization, and seeding completed. Straw-mats, seeds, and filter socks to mark the 10- and 50-foot buffers have been established. Environmental crew restored wetland with seed in the unsaturated areas with straw matting. Installed filter socks marking the 10- and 50-foot buffer on the wetland. Survey crew on-site to verify pre-construction grades were re-established. No impacts to biological conditions or unauthorized discharges were observed during the crossing. -T. Turner Jr.
03-07-2024: The MVP E.I. is Keith. D, and the Precision Pipeline foreman is William R. Martin. The pipe will be excavated to determine if it sustained any damage during backfill operations. Timber mats were placed in the

wetland for an excavator to operate on. The top 12-inches of wetland topsoil was excavated, and a trench box was installed. The topsoil was stockpiled on top of the wetland topsoil, and the subsoil was placed on a geotextile fabric barrier. A dewatering structure was constructed, and a 3-inch pump was used to convey the water from the open trench to the dewatering structure. Rock was added to the trench for stability. The pipe was jeep tested. -D. Fraise

03-08-2024: Pipe was jeep tested again and passed. The trench box was removed, and the subsoil was backfilled. The topsoil was added and restored with a wetland seed mix and straw mulch. Filter sock was replaced around the resource's perimeter. Bridge mats remain installed across wetland area for access until removal during permanent restoration at a later date. -D. Fraise

No impacts to biological conditions or unauthorized discharges, were observed during the crossing activities.

In accordance with the Mountain Valley Pipeline Consent Decree, dated October 11, 2019, this independent report was completed to document the on-site monitoring of instream invertebrate and fisheries resources during all construction activity related to waterbody and wetland crossings, and document instream conditions and any impacts to the resources.

This report was written by	Darrell Fraise *Print Name*	Darrell F *Signature*	03/09/2024 *Date*

Required Photos

Photo Description: View of permitted resource impact area during pre-construction assessment.

Photo Description: At edge of LOD, view of unpermitted resource area conditions during pre-construction assessment.

Photo Description: View of permitted resource impact area during post-construction assessment.

Photo Description: At edge of LOD, view of unpermitted resource area conditions during post-construction assessment.

Optional Additional Photos

Photo Description: The topsoil was segregated and stockpiled on a bed of straw for separation.

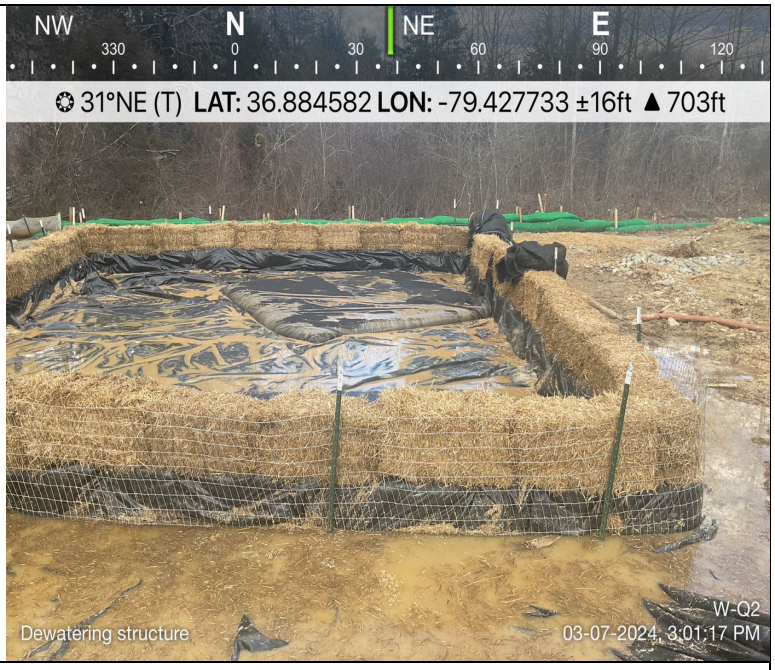

Photo Description: A dewatering structure was constructed and functioning as designed.

Photo Description: The subsoil was removed stockpiled properly on fabric, and backfilled to the wetland in the proper sequence during pipe integrity investigation.

Photo Description: Filter sock was replaced along the wetland's boundaries.